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PTO/SB/21 (08-03)

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FE TRANSMITTAL  FORM			Filing Date		March 5, 2004				
			First Named Inventor		Matthew T. Starr				
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			Exami	ner Name	EVANS, Jefferson A.				
Total Number of Pages in This Submission 10				ey Docket Number	1046_035	フ			
ENCLOSURES (check all that apply)									
Fee Transmittal F	Fee Transmittal Form				After Allowance Communication to Group				
☐ Fee Attached	Licensing-related Papers			Appeal Communication to Board of Appeals and Interferences					
Amendment / Rep	Petition			Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)					
After Final	Petition to Convert to a Provisional Application			Proprietary Information					
Affidavits/dec	Power of Attorney, Revocation Change of Correspondence Address			Status Letter					
Extension of Time	Terminal Disclaimer			Other Enclosure(s) (please identify below):					
Express Abandonment Request		Request for Refund  CD, Number of CD(s)			Req. for Cert. of Corr. Due to App. and Office's Error (6 pgs.), Form PTO/SB/44 (1 pg.), Form PTO/SB/21 Transmittal Form (1				
Information Disclosure Statement					pg.); Form PTO/SB/17 Fee Transmittal Form (1 pg.); Return Mailroom Postcard, Check in the amount of \$100.00 (1).				
Certified Copy of Document(s)	Rema	is authorized to charge any additional No. 50-0289.							
Response to Missing Parts/ Incomplete Application		-tificals							
Response to I under 37 CFF	Certificals Certificals Certificals Correction ATURE OF APPLICANT, ATTORNEY, OR AGENT illinski LLP								
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and Individual name	Robert E. Purcell Reg. No. 28,532								
Signature	MU								
Date	September 7,	2006							
CERTIFICATE OF MAILING									
Express Mail under Ex	xpress Mail label No	EV67806	5411US	the United States Pos in an envelope addres VA 22313-1450 on this	tal Service with sufficient postage as sed t <del>p: Attn: Certificate of Corrections</del> date: September 1, 2006				
Typed or printed name MEG M. SENECAL									
Signature	Mex	M. S.	MC		Date September, 2006				

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METHOD OF PAYMENT (check all that apply)															
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Deposit Account Deposit Account Number: 50-0289  Deposit Account Name: Wall Marjama & Bilinski LLP															
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)															
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FEE CALCULATION															
1. BASIC FILING, SEA															
	FILIN	IG FEES	SE/	ARCH FEES		MINATION FEES									
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	300	150	500	250	200	100									
Design	200	100	100	50	130	65									
Plant	200	100	300	150	160	80									
Reissue	300	150	500	250	600	300									
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2. EXCESS CLAIM FE	ES	<del>-</del>	<u>.</u>		<u> </u>	<u>.                                    </u>	-	T	Small						
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3. APPLICATION SIZE															
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4. OTHER FEES /50 = (round up to a whole number) x =															
Non-English Specification, \$130 fee (no small entity discount)															
Other (e.g., late filing surcharge): Certificate of Correction															
SUBMITTED BY															
Registration No. 28,532 (Attorney/Agent)						Telephone 3	115-425-9000								
Name (Print/Type) Robert E. Purcell Date Sept. 7															

Attorney Docket No.: 1046 035

**PATENT** 

## UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Matthew T. Starr

> Jennifer L. Woodruff Rebecca J. Amparan Christopher A. Pollard

Patent No.:

7,085,097

Issued: August 1, 2006

Serial No.:

10/708,481

Filed: March 5, 2004

Customer No.:

20874

Title: ENTRY/EXIT PORT MAGAZINE FOR A

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I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 addressed to Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September under "EXPRESS MAIL" mailing label number EV678065411US.

## REQUEST FOR CERTIFICATE OF CORRECTION DUE TO APPLICANT AND OFFICE'S ERROR

Sir:

Applicant has noted several errors in the recently issued patent, U.S. Patent No. 7,085,097, as follows.

In the Specification (Detailed Description), the following mistakes have been noted:

- i) in Column 24, Line 14. Delete "sue as CPCI cards 566" and replace with--such as CPCI cards 566--.
- ii) in Column 29, Lines 54 through Column 31, Line 12. These paragraphs are incomplete, in improper order, and should be replaced with

Page 2 of 6

--The grasper cam follower 830 is operatively attached to the upper jaw 836 and is comprised of a horizontal surface 860 and a transitional surface 862. The horizontal surface 860 interacts with the grasper cam driver associated with the crank assembly 806 to force the second surface 826 towards the "open" position, which is in opposition to the operation of the bias system 828. The transitional surface 826 interacts with the grasper cam driver associated with the crank assembly 806 so that there is a gradual transition of the second surface 826 between the "open" and "closed" positions.

Associated with the grasper assembly 802 is a "tape-in-jaw" sensing system 868 that is comprised of a flag assembly 870 and a sensor 872. The flag assembly 870 is comprised of a spring-loaded plunger assembly 872. In operation, the plunger of the spring-loaded plunger 872 is in a first position if the grasping assembly 802 is not grasping a data cartridge 130. If, however, the grasping assembly 802 is grasping a data cartridge 130, the plunger moves to a second position. When the pusher plate assembly 804 is at or near a fully retracted position, the sensor 872 can detect whether the plunger is in the first position or the second position. This information is used to determine which direction a crank 912 associated with the crank assembly 806 should be rotated. More specifically, if the grasper assembly 802 is grasping a data cartridge 130, the crank 912 will be rotated in

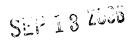
whichever direction, clock-wise or counter clock-wise, will maintain the grip on the data cartridge 130. If, the grasper assembly 802 is not grasping a data cartridge 130, the crank 912 will be rotated in the opposite direction from that used to maintain a grip on a data cartridge 912.

The pusher plate assembly 804 is comprised of: (a) a first member 880 that supports the gripper assembly 802 and comprises pusher plate cam follower; (b) an L-shaped member 882 that is operatively connected to the first member 880; (c) a linear rail 884 that is operatively connected to the base plate 800; (d) a pair of mounts 886A, 886B that connect the L-shaped member 882 to the linear rail 884; and (e) a roller assembly 888 that also connects the first member 880 to the base plate 800 and allows the first member 880 to move relative to the base plate 800. The linear rail 884 and pair of mounts 886A, 886B operate to constrain the movement of the gripper assembly 802 to linear movement towards and away from locations at which a data cartridge 130 is located or can be located. Other types of base plate assemblies that are capable of being used to move a gripper assembly, such as the gripper assembly 802, towards and away from locations at which a data cartridge 130 is or can be located are feasible.

The first member 800 comprises a pusher cam follower surface 894 that interacts with a pusher plate cam driver associated

with the crank assembly 806 to move the pusher plate assembly 804 to a desired location along the linear rail 884. Generally, the cam follower surface 894 is comprised of two, parallel surfaces 896A, 896B. The application of a force by the pusher plate cam driver to the surface 896A drives the pusher plate assembly 804 away from the elevator 582. Conversely, the application of a force by the pusher plate cam driver to the surface 896B drives the pusher plate assembly 804 towards the elevator 582. Forming a portion of the surface 896A is a compliance member 898 that flexes to reduce the force being applied by the pusher plate cam driver to a data cartridge 130 that has been contacted by the grasper assembly 802. In the illustrated embodiment, the compliance member 898 is comprised of a flat spring 900 that is located in a recess 902. One end of the spring 900 is fixed to the first member 880 and the other end of the spring 900 floats within the recess 902 to allow the spring 900 to flex. Forming a portion of the surface 896B is a dwell 904 that prevents the pusher plate cam driver from applying a force to the pusher plate assembly 804 over the extent of the dwell 898.

The crank assembly 806 is comprised of: (a) a motor assembly 910 for providing a rotational motive force; (b) a crank 912 for rotating about an axis 913 in response to the rotational motive force provided by the motor assembly 910; and (c) a camming structure 914 that provides a grasper cam driver surface for interacting with a grasper



U.S. Patent No. 7,085,097 Attorney Docket No. 1046 035

Request For Certificate Of Correction Due To Applicant and Office's Error

Page 5 of 6

cam follower 830 and a pusher plate cam driver surface for interacting with a pusher plate cam follower 894, and moves through the operation of the motor assembly 910 and the crank 912.

The motor assembly 910 is comprised of: (a) a stepper motor 920 that is attached to the base plate 800; and (b) a pinion 922 that is attached to the spindle of the stepper motor 920. The stepper motor 920 is capable of rotating the pinion 922 in a clock-wise direction and a counter-clockwise direction.

The crank 912 is comprised of: (a) a crank spindle 928 that is attached to the base plate 800; (b) a crank top 930; (c) an inner gear 932 that is attached to the crank top 930 and that engages the pinion 922 that is associated with the stepper motor 920; and (d) a bearing assembly 934 that connects the crank top 930 and the inner gear 932 to the spindle 928.--

Each of the foregoing specification corrections are based on a Supplemental Amendment, dated February 6, 2006. Applicant herein notes that all other noted changes made in the Amendment after Allowance were properly included in the issued patent, and it appears each of the foregoing errors ii) and iii) were inadvertent on the part of the Office.

Each of the foregoing mistakes was noted by the Applicant after issuance of the abovecaptioned patent, and Applicant wishes at this time to correct these obvious errors to the

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U.S. Patent No. 7,085,097

Attorney Docket No. 1046\_035

Request For Certificate Of Correction Due To Applicant and Office's Error

Page 6 of 6

specification, pursuant to 37 CFR §§ 1.322 and 1.323.

These errors are believed to be "minor" in nature, and the correction of these mistakes

does not in any way alter or materially affect the patent disclosure or the present inventorship.

The noted mistakes were made without any intent on the part of the Applicant to deceive or

mislead the Office or others.

Applicant, therefore, requests that a Certificate of Correction be issued in accordance with

the form PTO/SB/44 submitted herewith. Applicant has submitted herewith the requisite fee

under 37 CFR 1.20(a).

**Authorization to Charge Necessary Fees** 

The Commissioner is hereby authorized to charge any additional necessary fees associated

with this submission, or credit any overpayment, to Deposit Account No. 50-0289.

Respectfully submitted,

Dated: September 7, 2006

Robert E. Purcell Reg. No. 28,532

WALL MARJAMA & BILINSKI LLP 101 South Salina Street, Suite 400 Syracuse, New York 13202

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Facsimile:

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Customer No.:

20874

PATENT TRADEMARK OFFICE

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6

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 3

PATENT NO.: 7,085,097

APPLICATON NO.: 10/708,481

ISSUE DATE: August 1, 2006

INVENTOR(S): Matthew T. Starr, et al.

In the Specification (Detailed Description), the following mistakes have been noted:

- in Column 24, Line 14. Delete "sue as CPCI cards 566" and replace with--such as CPCI cards 566--.
- in Column 29, Lines 54 through Column 31, Line 12. These paragraphs are incomplete, in improper order, and should be replaced with
- --The grasper cam follower 830 is operatively attached to the upper jaw 836 and is comprised of a horizontal surface 860 and a transitional surface 862. The horizontal surface 860 interacts with the grasper cam driver associated with the crank assembly 806 to force the second surface 826 towards the "open" position, which is in opposition to the operation of the bias system 828. The transitional surface 826 interacts with the grasper cam driver associated with the crank assembly 806 so that there is a gradual transition of the second surface 826 between the "open" and "closed" positions.

Associated with the grasper assembly 802 is a "tape-in-jaw" sensing system 868 that is comprised of a flag assembly 870 and a sensor 872. The flag assembly 870 is comprised of a spring-loaded plunger assembly 872. In operation, the plunger of the spring-loaded plunger 872 is in a first position if the grasping assembly 802 is not grasping a data cartridge 130. If, however, the grasping assembly 802 is grasping a data cartridge 130, the plunger moves to a second position. When the pusher plate assembly 804 is at or near a fully retracted position, the sensor 872 can detect whether the plunger is in the first position or the second position. This information is used to determine which direction a crank 912 associated with the crank assembly 806 should be rotated. More specifically, if the grasper assembly 802 is grasping a data cartridge 130, the crank 912 will be rotated in whichever direction, clock-wise or counter clock-wise. will maintain the grip on the data cartridge 130. If, the grasper assembly 802 is not grasping a data cartridge 130, the crank 912 will be rotated in the opposite direction from that used to maintain a grip on a data cartridge 912.

The pusher plate assembly **804** is comprised of: (a) a first member **880** that supports the gripper assembly **802** and comprises pusher plate cam follower; (b) an L-shaped member **882** that is operatively connected to the first member **880**; (c) a linear rail **884** that is operatively connected to the base plate **800**; (d) a pair of mounts **886A**, **886B** that connect the L-shaped member **882** to the linear rail **884**; and (e) a roller assembly **888** that also connects the first member **880** to the base plate **800** and allows the first member **880** to move relative to the base plate **800**. The linear rail **884** and pair of mounts **886A**, **886B** operate to constrain the movement of the gripper assembly **802** to linear movement towards and away from locations at which a data cartridge **130** is located or can be located. Other types of base plate assemblies that are capable of being used to move a gripper assembly, such as the gripper assembly **802**, towards and away from locations at which a data cartridge **130** is or can be located are feasible.

The first member 800 comprises a pusher cam follower surface 894 that interacts with a pusher plate cam driver associated with the crank assembly 806 to move the pusher plate assembly 804 to a desired location along the linear rail 884. Generally, the cam follower surface 894 is comprised of two, parallel surfaces 896A, 896B. The application of a force by the pusher plate cam driver to the surface 896A drives the pusher plate assembly 804 away from the elevator 582. Conversely, the application of a force by the pusher plate cam driver to the surface 896B drives the pusher plate assembly 804 towards the elevator 582. Forming a portion of the surface 896A is a compliance member 898 that flexes to reduce the force being applied by the pusher plate cam driver to a data cartridge 130 that has been contacted by the grasper assembly 802. In the illustrated embodiment, the compliance member 898 is comprised of a flat spring 900 that is located in a recess 902. One end of the spring 900 is fixed to the first member 880 and the other end of the spring 900 floats within the recess 902 to allow the spring 900 to flex. Forming a portion of the surface 896B is a dwell 904 that prevents the pusher plate cam driver from applying a force to the pusher plate assembly 804 over the extent of the dwell 898.

The crank assembly **806** is comprised of: (a) a motor assembly **910** for providing a rotational motive force; (b) a crank **912** for rotating about an axis **913** in response to the rotational motive force provided by the motor assembly **910**; and (c) a camming structure **914** that provides a grasper cam driver surface for interacting with a grasper cam follower **830** and a pusher plate cam driver surface for interacting with a pusher plate cam follower **894**, and moves through the operation of the motor assembly **910** and the crank **912**.

The motor assembly **910** is comprised of: (a) a stepper motor **920** that is attached to the base plate **800**; and (b) a pinion **922** that is attached to the spindle of the stepper motor **920**. The stepper motor **920** is capable of rotating the pinion **922** in a clock-wise direction and a counter-clockwise direction.

The crank 912 is comprised of: (a) a crank spindle 928 that is attached to the base plate 800; (b) a crank top 930; (c) an inner gear 932 that is attached to the crank top 930 and that engages the pinion 922 that is associated with the stepper motor 920; and (d) a bearing assembly 934 that connects the crank top 930 and the inner gear 932 to the spindle 928.--

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